

**Table C-108. Federal obligations for basic research, by detailed field of science and engineering:
fiscal years 1980-1990**

[Dollars in millions]

Field of science and engineering	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Total, all fields	4,674.2	5,041.3	5,481.6	6,260.1	7,067.4	7,818.7	8,153.1	8,942.4	9,473.6	10,602.0	11,285.6
Life sciences, total	2,054.4	2,223.8	2,526.0	2,891.3	3,287.6	3,786.6	3,858.8	4,361.9	4,501.8	4,915.7	5,177.5
Biol & agricultural, total	1,339.4	1,462.4	1,674.8	1,928.8	2,174.7	2,515.5	2,543.0	2,870.4	2,855.3	3,102.9	3,219.0
Biol (excl environmental)	1,099.9	1,201.7	1,401.2	1,621.9	1,835.8	2,106.3	2,151.5	2,461.5	2,414.9	2,647.2	2,742.2
Environmental biology	86.1	83.3	83.2	92.7	120.8	125.7	125.7	141.0	146.8	157.3	168.3
Agricultural	153.5	177.4	190.4	214.2	218.1	283.5	265.7	267.9	293.7	298.4	308.5
Medical sciences, total	657.0	706.2	793.4	878.9	1,015.3	1,145.4	1,196.6	1,341.0	1,573.2	1,708.4	1,849.6
Life sciences, n.e.c.	58.0	55.3	57.8	83.6	97.7	125.7	119.2	150.6	73.2	104.4	108.9
Psychology, total	84.2	91.0	89.9	92.9	107.9	132.8	133.0	147.1	177.8	187.1	215.1
Biological aspects	30.2	30.5	32.9	31.4	43.7	48.0	47.0	49.3	52.4	61.0	65.3
Social aspects	31.3	30.2	33.7	32.8	33.4	46.9	45.3	45.5	40.9	38.1	60.9
Psychological sci, n.e.c.	22.8	30.2	23.3	28.7	30.8	38.0	40.7	52.3	84.5	88.0	88.8
Physical sciences, total	1,220.6	1,324.9	1,393.8	1,587.2	1,728.0	1,815.2	1,914.4	2,096.0	2,199.6	2,506.5	2,661.5
Astronomy	279.4	274.2	271.1	354.5	379.6	400.7	453.1	504.5	458.5	524.6	579.9
Chemistry	256.9	298.2	312.0	362.2	403.4	425.0	433.4	445.1	470.8	504.6	502.1
Physics	668.2	735.4	790.7	855.1	921.4	959.9	1,003.4	1,072.3	1,205.5	1,395.3	1,474.3
Physical sciences, n.e.c.	16.1	17.1	20.0	15.4	23.6	29.7	24.7	74.2	64.8	81.9	105.1
Environmental sciences, total	522.4	532.8	520.0	580.1	656.7	699.7	749.1	781.0	872.7	1,016.9	1,274.8
Atmospheric sciences	179.0	173.8	163.2	172.6	192.2	209.2	240.4	243.8	280.7	316.4	443.7
Geological sciences	198.3	194.2	177.5	178.3	198.0	250.0	265.5	266.2	267.3	334.9	439.7
Oceanography	130.7	143.3	154.5	195.6	220.1	219.3	224.3	249.8	269.4	293.5	299.7
Environmental sci, n.e.c.	14.3	21.5	24.9	33.5	46.4	21.2	18.9	21.2	55.2	72.1	91.6
Math & computer sci, total	116.3	140.4	165.1	208.1	240.8	260.0	293.4	306.4	313.2	345.8	406.9
Mathematics	66.8	79.2	90.9	100.9	113.9	130.3	142.4	158.4	165.4	167.8	176.3
Computer sciences	46.2	52.2	67.4	90.4	104.8	116.1	131.4	128.5	125.5	159.5	225.2
Math & computer sci, n.e.c.	3.2	9.0	6.8	16.8	22.2	13.6	19.6	19.5	22.4	18.4	5.3
Engineering, total	465.2	526.0	610.5	689.5	845.0	884.2	968.5	989.5	1,006.2	1,183.7	1,101.5
Aeronautical	104.2	113.3	126.5	140.7	225.5	191.5	226.3	237.4	231.0	327.9	269.6
Astronautical	27.2	33.2	44.8	50.4	52.4	41.6	52.5	48.8	48.4	58.9	62.3
Chemical	26.1	31.3	35.2	50.4	55.5	74.4	73.0	77.5	88.6	50.1	75.8
Civil	22.0	23.4	32.0	32.4	41.9	43.6	45.2	45.7	46.1	51.7	47.3
Electrical	70.6	78.5	93.6	95.8	130.4	144.9	156.3	175.4	154.0	173.8	146.9
Mechanical	42.2	47.4	53.1	60.7	64.1	88.2	83.6	87.2	83.5	100.8	91.4
Metallurgy & materials	121.3	138.5	155.9	182.9	187.3	211.9	228.5	209.8	230.1	254.8	260.2
Engineering, n.e.c.	51.6	60.5	69.4	76.2	87.9	88.2	103.2	107.8	124.4	165.7	147.9
Social sciences, total	147.2	137.0	120.2	137.7	132.6	140.7	113.5	129.5	146.8	154.6	146.0
Anthropology	14.2	13.1	13.1	11.2	16.8	15.8	11.2	12.3	12.1	12.1	12.5
Economics	40.0	34.1	39.0	41.0	29.7	34.3	26.3	29.0	34.7	37.7	37.1
Political science	7.4	6.3	4.4	4.6	4.1	5.8	4.1	5.5	5.1	5.4	6.4
Sociology	25.4	22.6	18.7	32.8	33.9	32.4	30.0	34.3	36.8	38.2	24.2
Social sciences, n.e.c.	60.2	60.9	45.1	48.2	48.1	52.4	41.9	48.4	58.1	61.2	65.8
Other sciences, n.e.c.	63.9	65.4	56.1	73.3	68.8	99.4	122.5	130.9	255.5	291.7	302.3

NOTE: Because of rounding, detail may not add to totals.

KEY: n.e.c. = Not elsewhere classified

SOURCE: National Science Foundation/Division of Science Resources Studies, Survey of Federal Funds for Research and Development: Fiscal Years 1999, 2000, and 2001